

Exercise 1

A disease gene, causing severe degeneration of the brain, has been mapped between markers rs4899655 and D14S905. What is your best guess for the gene that can be responsible for the disease?

Exercise 2

Using bl2seq (a particular BLAST) align these sequences. Supposing that the first is the reference sequence and the second is a sequence from a particular individual, what can you deduce? Is this a mutation, a polymorphism, or a rare variant?

Sequence 1:

NM_000492.3

Sequence 2:

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